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Patents

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE:

APPLICANT: HOYT M. LAYSON, JR.

GROUP ART: 2736

S.N.: 09/181,244

EXAMINER: VAN TRIEU

FILED: 10/28/98

FOR: BODY WORN ACTIVE AND  
PASSIVE TRACKING DEVICE

ATTY. DOC. 818.9

BOX NON FEE AMENDMENT  
Assistant Commissioner for Patents  
Washington, D.C. 20231

RECEIVED  
JUL 12 1999  
Group 2700

Sir:

In response to the Office Action dated April 13, 1999, applicant respectfully requests reconsideration of the rejection of claims 1-18 based on the following Amendments and Remarks.

Amendments

Claim 1. (Amended) A tamper resistant body-worn tracking device worn on a limb of an offender for use in a wireless communication system receiving signals from a GPS and directly communicating spacial coordinates to multiple remote sites, the body-worn tracking device comprising

- (a) a sealed enclosed case containing means for implementing tamper detection;
- (b) a main battery enclosed by the case;
- (c) a signaling device enclosed by the case;

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cont.

- (d) a means to replace the main battery;
- (e) a circuit board enclosed by the case having attached on the circuit board, a wireless data modem, a GPS receiver having a means to acquire updates to a GPS almanac, a matched filtering GPS receiver, an RF front end connected to the GPS receiver and matched filtering GPS receiver and a field programmable gate array.

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5. (Amended) A body-worn tracking device according to claim 1 wherein the means for implementing tamper detection is a strap attached to the case and worn around an ankle of the offender which if severed actuates an alarm to a central data base.

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12. (Amended) A system for determining the spacial coordinates of an offender comprising attaching a tamper resistant body-worn tracking device to a limb of the offender, and sending signals directly from the body-worn tracking device to remote associated notification devices, the body-worn tracking device providing a sealed case containing:

- (a) a main battery;
- (b) a signaling device;
- (c) a circuit board having attached to the board
  - (1) a wireless data modem,
  - (2) a GPS receiver having a means to acquire updates to a GPS almanac,
  - (3) a matched filtering GPS receiver with an RF front end connected to the GPS receiver and matched filtering GPS receiver, and
  - (4) a field programmable gate array.

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